

Appl. No. 10/560,080
Response to Office Action mailed August 17, 2007

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (currently amended) A mixed powder for powder metallurgy comprising an alloy steel powder having: an iron-based powder containing Mn of 0.5% by mass or less and Mo of 0.2 to 1.5% by mass as prealloyed elements, wherein the iron-based powder containing Ni in an amount of 0.03% by mass or less; and Mo of 0.05 to 1.0% by mass adhered to the surfaces of said iron-based powder in the form of a powder by diffusion bonding, and a blended powder which is at least one of a Ni powder of 0.2 to 5% by mass and a Cu powder of 0.2 to 3% by mass.

Claim 2. (currently amended) A mixed powder for powder metallurgy comprising an alloy steel powder and a blended powder which is at least one of a Ni powder of 0.2 to 5% by mass and a Cu powder of 0.2 to 3% by mass,

wherein said alloy steel powder has ~~[[the]]~~ an area on the surfaces thereof, which has a Mo concentration of 2.0% or more by

Appl. No. 10/560,080

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mass, in a range equal to or greater than 1% and equal to or less than 30% of the cross-sectional area thereof,

and wherein the remainder of said alloy steel powder contains Mo with a concentration equal to or greater than 0.2% by mass and less than 2.0% by mass,

and wherein the alloy powder contains 0.03% by mass or less of Ni.

Claim 3. (currently amended) A mixed powder for powder metallurgy according to Claim 1, wherein said alloy steel powder includes at least one of said Ni powder and said Cu powder adhered to the surfaces thereof ~~using~~ by a binder.

Claim 4. (currently amended) A mixed powder for powder metallurgy according to Claim 2, wherein said alloy steel powder includes at least one of said Ni powder and said Cu powder adhered to the surfaces thereof ~~using~~ by a binder.

Claim 5. (new) A mixed powder for powder metallurgy according to claim 1, wherein the iron-based powder further contains 0.03 mass % or less of V, 0.03 mass % or less of Cu and 0.02 mass % or less of Cr.

Appl. No. 10/560,080

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Claim 6. (new) A mixed powder for powder metallurgy according to Claim 2, wherein the alloy steel powder further contains 0.03 mass % or less of V, 0.03 mass % or less of Cu and 0.02 mass % or less of Cr.

Claim 7. (new) A mixed powder for powder metallurgy according to Claim 1, wherein the iron-based powder further contains 0.02 mass % or less of Ni, 0.02 mass % or less of V, 0.02 mass % or less of Cu and 0.01 mass % or less of Cr.

Claim 8. (new) A mixed powder for powder metallurgy according to Claim 2, wherein the alloy steel powder further contains 0.02 mass % or less of Ni, 0.02 mass % or less of V, 0.02 mass % or less of Cu and 0.01 mass % or less of Cr.

Claim 9. (new) A mixed powder for powder metallurgy according to Claim 1, wherein the alloy steel powder further contains 0.03 mass % or less of Ni, 0.03 mass % or less of V, 0.03 mass % or less of Cu and 0.02 mass % or less of Cr.